

State of New Mexico  
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham  
Governor

Sarah Cottrell Propst  
Cabinet Secretary

Todd E. Leahy, JD, PhD  
Deputy Secretary

Adrienne Sandoval, Division Director  
Oil Conservation Division



## Notice of C-104 Denial and Request for Information

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

### Test Allowable, New Well and Recompleted Well Amend C-104

- ☐ C-103 (or BLM equivalent) for all casing strings
  - ☐ Spud Notice
  - \* ☐ Surface Casing
  - \* ☐ Intermediate Casing (if applicable)
  - \* ☐ Additional Intermediate Casing (if applicable)
  - \* ☐ Production Casing or Liner

\* add Tbg. Size & Class on C-104.  
+ Perfs
- ☐ Applicable Order (NSL, NSP, Other \_\_\_\_\_)
- ☐ Deviation Survey for Vertical Wells
- ☒ Directional Survey
  - ☒ C-102 (As-Drilled Plat for Horizontal Well)

### New Well and Recompleted Well Only

- ☒ C-103 Completion Sundry (or BLM equivalent) File Approved copy to A.C.D. Comp Sundry.
- ☒ C-105 Completion Report (or BLM equivalent) Approved copy from BLM  
BLM SUBMITTED COPY TO A.C.D. 10/17/14 and imaged
- ☐ All Logs Run on Well

If you have any questions please contact the local OCD District Office

RECEIVED

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

SEP 12 2019  
DISTRICT/ARTESIA/OC

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                                     |                                                        |
|-----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-45438 | <sup>2</sup> Pool Code<br>39350                                     | <sup>3</sup> Pool Name<br>Livingston Ridge; Bonespring |
| <sup>4</sup> Property Code              | <sup>5</sup> Property Name<br>TOMB RAIDER 1-12 FED                  | <sup>6</sup> Well Number<br>524H                       |
| <sup>7</sup> OGRID No.<br>6137          | <sup>8</sup> Operator Name<br>DEVON ENERGY PRODUCTION COMPANY, L.P. | <sup>9</sup> Elevation<br>3475.6                       |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 2             | 1       | 23 S     | 31 E  |         | 360           | NORTH            | 2395          | EAST           | EDDY   |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 12      | 23 S     | 31 E  |         | 1             | SOUTH            | 2104          | WEST           | EDDY   |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>320 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>NW CORNER SEC. 1<br/>LAT. = 32.3407245°N<br/>LONG. = 103.7400556°W<br/>NMSP EAST (FT)<br/>N = 488195.03<br/>E = 724564.59</p> <p>W/4 CORNER SEC. 1<br/>LAT. = 32.3334649°N<br/>LONG. = 103.7400345°W<br/>NMSP EAST (FT)<br/>N = 485554.08<br/>E = 724585.72</p> <p>SW CORNER SEC. 1<br/>LAT. = 32.3262057°N<br/>LONG. = 103.7400123°W<br/>NMSP EAST (FT)<br/>N = 482913.26<br/>E = 724607.20</p> <p>W/4 CORNER SEC. 12<br/>LAT. = 32.3189531°N<br/>LONG. = 103.7400200°W<br/>NMSP EAST (FT)<br/>N = 480274.75<br/>E = 724619.44</p> <p>SW CORNER SEC. 12<br/>LAT. = 32.3116999°N<br/>LONG. = 103.7400280°W<br/>NMSP EAST (FT)<br/>N = 477636.10<br/>E = 724631.57</p> |  | <p>N89°43'53"E 2641.72 FT<br/>N/4 CORNER SEC. 1<br/>LAT. = 32.3407180°N<br/>LONG. = 103.7315040°W<br/>NMSP EAST (FT)<br/>N = 488207.42<br/>E = 727205.71</p> <p>AS-DRILLED KOP<br/>262' FNL, 2086' FWL<br/>LAT. = 32.3400003°N<br/>LONG. = 103.7338006°W<br/>NMSP EAST (FT)<br/>N = 487943.22<br/>E = 726652.28</p> <p>AS-DRILLED FIRST TAKE POINT<br/>583' FNL, 2078' FWL<br/>LAT. = 32.339117°N<br/>LONG. = 103.7333249°W<br/>NMSP EAST (FT)<br/>N = 487622.06<br/>E = 726646.57</p> <p>NOTE:<br/>LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE VERTICAL DATUM NAVD83.</p> <p>AS-DRILLED LAST TAKE POINT<br/>138' FNL, 2102' FWL<br/>LAT. = 32.3120787°N<br/>LONG. = 103.7332252°W<br/>NMSP EAST (FT)<br/>N = 477785.60<br/>E = 726732.48</p> <p>AS-DRILLED BOTTOM OF HOLE<br/>LAT. = 32.3116996°N<br/>LONG. = 103.7332204°W<br/>NMSP EAST (FT)<br/>N = 477641.67<br/>E = 726734.73</p> <p>S/4 CORNER SEC. 1<br/>LAT. = 32.3262026°N<br/>LONG. = 103.7314852°W<br/>NMSP EAST (FT)<br/>N = 482926.80<br/>E = 727241.16</p> <p>S/4 CORNER SEC. 12<br/>LAT. = 32.3116989°N<br/>LONG. = 103.7314958°W<br/>NMSP EAST (FT)<br/>N = 477650.42<br/>E = 727267.52</p> |  | <p>NE CORNER SEC. 1<br/>LAT. = 32.3407105°N<br/>LONG. = 103.7229557°W<br/>NMSP EAST (FT)<br/>N = 488219.63<br/>E = 729845.81</p> <p>E/4 CORNER SEC. 1<br/>LAT. = 32.3334554°N<br/>LONG. = 103.7229555°W<br/>NMSP EAST (FT)<br/>N = 485580.24<br/>E = 729860.91</p> <p>SE CORNER SEC. 1<br/>LAT. = 32.3262014°N<br/>LONG. = 103.7229554°W<br/>NMSP EAST (FT)<br/>N = 482941.27<br/>E = 729875.98</p> <p>E/4 CORNER SEC. 12<br/>LAT. = 32.3189486°N<br/>LONG. = 103.7229585°W<br/>NMSP EAST (FT)<br/>N = 480302.72<br/>E = 729890.06</p> <p>SE CORNER SEC. 12<br/>LAT. = 32.3116930°N<br/>LONG. = 103.7229595°W<br/>NMSP EAST (FT)<br/>N = 477663.17<br/>E = 729904.77</p> |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Jenny Harms* 9-11-2019  
Signature Date

Jenny Harms  
Printed Name

Jenny.harms@dmv.com  
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 21, 2018  
Date of Survey

*William F. Jaramillo*  
Signature and Seal of Professional Surveyor

Certificate Number: 12797  
Professional No. 6215A

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Intent ☐ As Drilled ☒

SEP 12 2019

API #

DISTRICT 7 - ARTESIA O.C.D.

|                                   |                      |             |
|-----------------------------------|----------------------|-------------|
| Operator Name:                    | Property Name:       | Well Number |
| DEVON ENERGY PRODUCTION CO., L.P. | TOMB RAIDER 1-12 FED | 524H        |

Kick Off Point (KOP)

|                        |              |                 |              |          |                          |                   |              |                  |                |
|------------------------|--------------|-----------------|--------------|----------|--------------------------|-------------------|--------------|------------------|----------------|
| UL                     | Section<br>1 | Township<br>23S | Range<br>31E | Lot<br>3 | Feet<br>262              | From N/S<br>NORTH | Feet<br>2086 | From E/W<br>WEST | County<br>EDDY |
| Latitude<br>32.3400003 |              |                 |              |          | Longitude<br>103.7333006 |                   |              | NAD<br>83        |                |

First Take Point (FTP)

|                        |              |                 |              |          |                          |                   |              |                  |                |
|------------------------|--------------|-----------------|--------------|----------|--------------------------|-------------------|--------------|------------------|----------------|
| UL                     | Section<br>1 | Township<br>23S | Range<br>31E | Lot<br>3 | Feet<br>583              | From N/S<br>NORTH | Feet<br>2078 | From E/W<br>WEST | County<br>EDDY |
| Latitude<br>32.3391177 |              |                 |              |          | Longitude<br>103.7333249 |                   |              | NAD<br>83        |                |

Last Take Point (LTP)

|                        |               |                 |              |     |                          |                   |              |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|--------------|------------------|----------------|
| UL<br>N                | Section<br>12 | Township<br>23S | Range<br>31E | Lot | Feet<br>138              | From N/S<br>SOUTH | Feet<br>2102 | From E/W<br>WEST | County<br>EDDY |
| Latitude<br>32.3120787 |               |                 |              |     | Longitude<br>103.7332252 |                   |              | NAD<br>83        |                |

Is this well the defining well for the Horizontal Spacing Unit? ☒ yes

Is this well an infill well? ☐ no

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

|                |                |             |
|----------------|----------------|-------------|
| Operator Name: | Property Name: | Well Number |
|                |                |             |

KZ 06/29/2018



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **01/25/19** thru **02/10/19** conduct or supervise the taking of a **MWD Survey** from a depth of **169'** to a depth of **19387'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Tomb Raider 1-12 Fed 524H API No. 30-015-45438** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright



## Devon Energy

Eddy Co., NM (Nad83 - East Zone)

Tomb Raider 1-12 Fed

#524H

OH

Design: OH

## Survey Report - Geographic

11 February, 2019

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SEP 12 2019

DISTRICT/ARTESIAO.C.D.





Wellbenders  
Survey Report - Geographic



|           |                                  |                              |                                    |
|-----------|----------------------------------|------------------------------|------------------------------------|
| Company:  | Devon Energy                     | Local Co-ordinate Reference: | Well #524H                         |
| Project:  | Eddy Co., NM (Nad83 - East Zone) | TVD Reference:               | RKB=30' @ 3505.70usft (Cactus 108) |
| Site:     | Tomb Raider 1-12 Fed             | MD Reference:                | RKB=30' @ 3505.70usft (Cactus 108) |
| Well:     | #524H                            | North Reference:             | Grid                               |
| Wellbore: | OH                               | Survey Calculation Method:   | Minimum Curvature                  |
| Design:   | OH                               | Database:                    | WBDS_SQL_2                         |

|             |                                  |               |                |
|-------------|----------------------------------|---------------|----------------|
| Project     | Eddy Co., NM (Nad83 - East Zone) |               |                |
| Map System: | US State Plane 1983              | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983        |               |                |
| Map Zone:   | New Mexico Eastern Zone          |               |                |

|                       |                      |                   |                 |
|-----------------------|----------------------|-------------------|-----------------|
| Site                  | Tomb Raider 1-12 Fed |                   |                 |
| Site Position:        |                      | Northing:         | 487,848.73 usft |
| From:                 | Map                  | Easting:          | 727,483.34 usft |
| Position Uncertainty: | 0.00 usft            | Slot Radius:      | 13.200 in       |
|                       |                      | Latitude:         | 32.339728       |
|                       |                      | Longitude:        | -103.730612     |
|                       |                      | Grid Convergence: | 0.322 °         |

|                      |           |                     |               |
|----------------------|-----------|---------------------|---------------|
| Well                 | #524H     |                     |               |
| Well Position        | +N/-S     | 0.00 usft           | Northing:     |
|                      | +E/-W     | 0.00 usft           | Easting:      |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | usft          |
|                      |           | Latitude:           | 32.339728     |
|                      |           | Longitude:          | -103.730709   |
|                      |           | Ground Level:       | 3,475.70 usft |

|           |              |                  |                        |
|-----------|--------------|------------------|------------------------|
| Wellbore  | OH           |                  |                        |
| Magnetics | Model Name   | Sample Date      | Declination<br>(°)     |
|           | User Defined | 12/18/2018       | 7.000                  |
|           | User Defined | 12/19/2018       | 6.990                  |
|           |              | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           |              | 60.090           | 48,043.40000000        |
|           |              | 60.080           | 48,088.40000000        |

|                   |                            |                 |                  |
|-------------------|----------------------------|-----------------|------------------|
| Design            | OH                         |                 |                  |
| Audit Notes:      |                            |                 |                  |
| Version:          | 1.0                        | Phase:          | ACTUAL           |
|                   |                            | Tie On Depth:   | 0.00             |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft)  |
|                   | 0.00                       | 0.00            | 0.00             |
|                   |                            |                 | Direction<br>(°) |
|                   |                            |                 | 179.68           |

|                |              |                   |           |                        |
|----------------|--------------|-------------------|-----------|------------------------|
| Survey Program | Date         | 2/11/2019         |           |                        |
| From<br>(usft) | To<br>(usft) | Survey (Wellbore) | Tool Name | Description            |
| 169.00         | 19,387.00    | Survey #1 (OH)    | MWD+IGRF  | OWSG MWD + IGRF or WMM |

|                                              |                    |                |                             |                 |                 |                           |                          |           |             |
|----------------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|-----------|-------------|
| Survey                                       |                    |                |                             |                 |                 |                           |                          |           |             |
| Measured<br>Depth<br>(usft)                  | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude  | Longitude   |
| 0.00                                         | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 487,848.53                | 727,453.32               | 32.339728 | -103.730709 |
| TR Fed 1-12 524H: SHL (360' FNL & 2395' FEL) |                    |                |                             |                 |                 |                           |                          |           |             |
| 169.00                                       | 0.53               | 255.32         | 169.00                      | -0.20           | -0.76           | 487,848.33                | 727,452.56               | 32.339727 | -103.730712 |
| 268.00                                       | 0.48               | 272.46         | 267.99                      | -0.30           | -1.61           | 487,848.23                | 727,451.70               | 32.339727 | -103.730714 |
| 361.00                                       | 0.35               | 232.47         | 360.99                      | -0.45           | -2.23           | 487,848.08                | 727,451.09               | 32.339727 | -103.730716 |
| 453.00                                       | 0.66               | 274.39         | 452.99                      | -0.58           | -2.98           | 487,847.95                | 727,450.34               | 32.339726 | -103.730719 |
| 545.00                                       | 0.79               | 258.84         | 544.98                      | -0.67           | -4.13           | 487,847.87                | 727,449.19               | 32.339726 | -103.730722 |
| 637.00                                       | 0.57               | 269.56         | 636.97                      | -0.79           | -5.21           | 487,847.74                | 727,448.11               | 32.339726 | -103.730726 |
| 730.00                                       | 0.62               | 239.33         | 729.97                      | -1.05           | -6.10           | 487,847.48                | 727,447.21               | 32.339725 | -103.730729 |
| 761.00                                       | 0.70               | 242.05         | 760.97                      | -1.23           | -6.42           | 487,847.30                | 727,446.90               | 32.339725 | -103.730730 |
| 880.00                                       | 0.57               | 251.54         | 879.96                      | -1.75           | -7.62           | 487,846.78                | 727,445.70               | 32.339723 | -103.730734 |



Wellbenders  
Survey Report - Geographic



|           |                                  |                              |                                    |
|-----------|----------------------------------|------------------------------|------------------------------------|
| Company:  | Devon Energy                     | Local Co-ordinate Reference: | Well #524H                         |
| Project:  | Eddy Co., NM (Nad83 - East Zone) | TVD Reference:               | RKB=30' @ 3505.70usft (Cactus 108) |
| Site:     | Tomb Raider 1-12 Fed             | MD Reference:                | RKB=30' @ 3505.70usft (Cactus 108) |
| Well:     | #524H                            | North Reference:             | Grid                               |
| Wellbore: | OH                               | Survey Calculation Method:   | Minimum Curvature                  |
| Design:   | OH                               | Database:                    | WBDS_SQL_2                         |

| Survey                      |                    |                |                             |                 |                 |                           |                          |           |             |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|-----------|-------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude  | Longitude   |
| 972.00                      | 0.57               | 240.91         | 971.96                      | -2.12           | -8.45           | 487,846.41                | 727,444.86               | 32.339722 | -103.730736 |
| 1,064.00                    | 0.66               | 244.07         | 1,063.95                    | -2.58           | -9.33           | 487,845.95                | 727,443.99               | 32.339721 | -103.730739 |
| 1,157.00                    | 0.57               | 250.66         | 1,156.95                    | -2.96           | -10.25          | 487,845.57                | 727,443.07               | 32.339720 | -103.730742 |
| 1,251.00                    | 0.35               | 269.03         | 1,250.94                    | -3.12           | -10.98          | 487,845.41                | 727,442.34               | 32.339719 | -103.730745 |
| 1,343.00                    | 0.31               | 259.72         | 1,342.94                    | -3.17           | -11.50          | 487,845.36                | 727,441.81               | 32.339719 | -103.730746 |
| 1,436.00                    | 0.31               | 255.32         | 1,435.94                    | -3.28           | -11.99          | 487,845.25                | 727,441.32               | 32.339719 | -103.730748 |
| 1,528.00                    | 0.44               | 257.96         | 1,527.94                    | -3.42           | -12.58          | 487,845.11                | 727,440.74               | 32.339719 | -103.730750 |
| 1,620.00                    | 0.40               | 252.33         | 1,619.93                    | -3.59           | -13.23          | 487,844.94                | 727,440.09               | 32.339718 | -103.730752 |
| 1,713.00                    | 0.26               | 250.93         | 1,712.93                    | -3.76           | -13.74          | 487,844.77                | 727,439.58               | 32.339718 | -103.730754 |
| 1,902.00                    | 0.26               | 269.12         | 1,901.93                    | -3.90           | -14.57          | 487,844.63                | 727,438.74               | 32.339717 | -103.730756 |
| 1,997.00                    | 0.35               | 244.78         | 1,996.93                    | -4.03           | -15.05          | 487,844.50                | 727,438.26               | 32.339717 | -103.730758 |
| 2,186.00                    | 0.26               | 225.88         | 2,185.93                    | -4.57           | -15.88          | 487,843.96                | 727,437.43               | 32.339715 | -103.730761 |
| 2,281.00                    | 0.26               | 264.64         | 2,280.93                    | -4.74           | -16.25          | 487,843.79                | 727,437.06               | 32.339715 | -103.730762 |
| 2,376.00                    | 0.18               | 258.31         | 2,375.93                    | -4.79           | -16.61          | 487,843.74                | 727,436.70               | 32.339715 | -103.730763 |
| 2,470.00                    | 0.92               | 288.90         | 2,469.92                    | -4.58           | -17.47          | 487,843.95                | 727,435.85               | 32.339715 | -103.730766 |
| 2,565.00                    | 1.23               | 299.44         | 2,564.90                    | -3.83           | -19.08          | 487,844.70                | 727,434.24               | 32.339718 | -103.730771 |
| 2,659.00                    | 2.15               | 285.03         | 2,658.86                    | -2.88           | -21.66          | 487,845.65                | 727,431.65               | 32.339720 | -103.730779 |
| 2,754.00                    | 3.03               | 284.33         | 2,753.76                    | -1.80           | -25.82          | 487,846.74                | 727,427.50               | 32.339723 | -103.730793 |
| 2,849.00                    | 4.22               | 285.73         | 2,848.57                    | -0.23           | -31.61          | 487,848.30                | 727,421.70               | 32.339728 | -103.730811 |
| 2,944.00                    | 5.58               | 288.37         | 2,943.22                    | 2.18            | -39.36          | 487,850.71                | 727,413.96               | 32.339734 | -103.730836 |
| 3,038.00                    | 6.99               | 286.35         | 3,036.66                    | 5.23            | -49.19          | 487,853.76                | 727,404.13               | 32.339743 | -103.730868 |
| 3,133.00                    | 7.87               | 285.91         | 3,130.86                    | 8.64            | -60.99          | 487,857.17                | 727,392.33               | 32.339752 | -103.730906 |
| 3,228.00                    | 7.60               | 286.08         | 3,224.99                    | 12.16           | -73.28          | 487,860.69                | 727,380.04               | 32.339762 | -103.730946 |
| 3,322.00                    | 7.12               | 285.91         | 3,318.22                    | 15.48           | -84.86          | 487,864.01                | 727,368.46               | 32.339772 | -103.730984 |
| 3,417.00                    | 6.73               | 286.96         | 3,412.53                    | 18.72           | -95.84          | 487,867.25                | 727,357.47               | 32.339781 | -103.731019 |
| 3,512.00                    | 6.37               | 287.49         | 3,506.91                    | 21.92           | -106.19         | 487,870.46                | 727,347.12               | 32.339790 | -103.731052 |
| 3,607.00                    | 5.63               | 287.84         | 3,601.38                    | 24.94           | -115.66         | 487,873.47                | 727,337.66               | 32.339798 | -103.731083 |
| 3,701.00                    | 5.67               | 280.02         | 3,694.93                    | 27.16           | -124.62         | 487,875.69                | 727,328.70               | 32.339804 | -103.731112 |
| 3,796.00                    | 6.90               | 274.92         | 3,789.36                    | 28.46           | -134.92         | 487,876.99                | 727,318.39               | 32.339808 | -103.731145 |
| 3,891.00                    | 8.66               | 277.21         | 3,883.48                    | 29.85           | -147.71         | 487,878.38                | 727,305.61               | 32.339812 | -103.731187 |
| 3,985.00                    | 8.44               | 279.05         | 3,976.43                    | 31.82           | -161.54         | 487,880.35                | 727,291.78               | 32.339818 | -103.731231 |
| 4,080.00                    | 8.35               | 277.21         | 4,070.42                    | 33.79           | -175.27         | 487,882.32                | 727,278.05               | 32.339823 | -103.731276 |
| 4,175.00                    | 9.19               | 277.73         | 4,164.30                    | 35.67           | -189.63         | 487,884.20                | 727,263.69               | 32.339829 | -103.731322 |
| 4,269.00                    | 8.66               | 278.44         | 4,257.17                    | 37.72           | -204.07         | 487,886.25                | 727,249.25               | 32.339835 | -103.731369 |
| 4,364.00                    | 7.87               | 280.63         | 4,351.18                    | 39.97           | -217.54         | 487,888.50                | 727,235.78               | 32.339841 | -103.731413 |
| 4,553.00                    | 7.52               | 279.39         | 4,538.48                    | 44.37           | -242.45         | 487,892.91                | 727,210.86               | 32.339854 | -103.731493 |
| 4,648.00                    | 8.70               | 278.08         | 4,632.53                    | 46.40           | -255.70         | 487,894.93                | 727,197.61               | 32.339859 | -103.731536 |
| 4,742.00                    | 9.63               | 273.07         | 4,725.33                    | 47.82           | -270.59         | 487,896.35                | 727,182.72               | 32.339863 | -103.731584 |
| 4,837.00                    | 9.71               | 271.75         | 4,818.98                    | 48.49           | -286.53         | 487,897.02                | 727,166.78               | 32.339865 | -103.731636 |
| 4,932.00                    | 9.54               | 272.28         | 4,912.64                    | 49.05           | -302.41         | 487,897.58                | 727,150.91               | 32.339867 | -103.731687 |
| 5,026.00                    | 9.19               | 272.71         | 5,005.39                    | 49.71           | -317.69         | 487,898.24                | 727,135.63               | 32.339869 | -103.731737 |
| 5,121.00                    | 8.97               | 273.15         | 5,099.20                    | 50.48           | -332.66         | 487,899.01                | 727,120.65               | 32.339872 | -103.731785 |
| 5,216.00                    | 8.92               | 273.42         | 5,193.04                    | 51.32           | -347.41         | 487,899.85                | 727,105.91               | 32.339874 | -103.731833 |
| 5,310.00                    | 9.41               | 272.89         | 5,285.84                    | 52.15           | -362.36         | 487,900.68                | 727,090.96               | 32.339877 | -103.731881 |
| 5,405.00                    | 9.63               | 272.36         | 5,379.53                    | 52.86           | -378.05         | 487,901.40                | 727,075.26               | 32.339879 | -103.731932 |
| 5,500.00                    | 9.36               | 272.89         | 5,473.23                    | 53.58           | -393.71         | 487,902.11                | 727,059.61               | 32.339881 | -103.731983 |
| 5,594.00                    | 9.23               | 273.33         | 5,566.00                    | 54.40           | -408.87         | 487,902.94                | 727,044.45               | 32.339884 | -103.732032 |
| 5,689.00                    | 8.88               | 274.12         | 5,659.81                    | 55.37           | -423.79         | 487,903.90                | 727,029.53               | 32.339887 | -103.732080 |
| 5,784.00                    | 8.84               | 275.18         | 5,753.68                    | 56.56           | -438.37         | 487,905.09                | 727,014.94               | 32.339890 | -103.732127 |
| 5,878.00                    | 8.84               | 276.05         | 5,846.56                    | 57.97           | -452.75         | 487,906.50                | 727,000.57               | 32.339894 | -103.732174 |
| 5,973.00                    | 8.62               | 276.93         | 5,940.46                    | 59.60           | -467.07         | 487,908.13                | 726,986.24               | 32.339899 | -103.732220 |
| 6,065.00                    | 8.40               | 276.58         | 6,031.45                    | 61.20           | -480.59         | 487,909.73                | 726,972.72               | 32.339903 | -103.732264 |
| 6,159.00                    | 8.22               | 275.35         | 6,124.46                    | 62.62           | -494.10         | 487,911.15                | 726,959.21               | 32.339908 | -103.732308 |
| 6,254.00                    | 8.18               | 273.95         | 6,218.49                    | 63.72           | -507.61         | 487,912.25                | 726,945.71               | 32.339911 | -103.732351 |
| 6,349.00                    | 8.26               | 272.36         | 6,312.51                    | 64.46           | -521.17         | 487,912.99                | 726,932.15               | 32.339913 | -103.732395 |



Wellbenders  
Survey Report - Geographic



|           |                                  |                              |                                    |
|-----------|----------------------------------|------------------------------|------------------------------------|
| Company:  | Devon Energy                     | Local Co-ordinate Reference: | Well #524H                         |
| Project:  | Eddy Co., NM (Nad83 - East Zone) | TVD Reference:               | RKB=30' @ 3505.70usft (Cactus 108) |
| Site:     | Tomb Raider 1-12 Fed             | MD Reference:                | RKB=30' @ 3505.70usft (Cactus 108) |
| Well:     | #524H                            | North Reference:             | Grid                               |
| Wellbore: | OH                               | Survey Calculation Method:   | Minimum Curvature                  |
| Design:   | OH                               | Database:                    | WBDS_SQL_2                         |

| Survey                               |                 |             |                       |              |              |                     |                    |           |             |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 6,443.00                             | 8.66            | 271.40      | 6,405.49              | 64.91        | -534.99      | 487,913.44          | 726,918.33         | 32.339914 | -103.732440 |
| 6,538.00                             | 8.84            | 270.61      | 6,499.39              | 65.17        | -549.44      | 487,913.70          | 726,903.88         | 32.339915 | -103.732487 |
| 6,633.00                             | 9.10            | 275.53      | 6,593.22              | 65.97        | -564.22      | 487,914.50          | 726,889.10         | 32.339918 | -103.732535 |
| 6,727.00                             | 9.10            | 273.51      | 6,686.04              | 67.14        | -579.04      | 487,915.67          | 726,874.28         | 32.339921 | -103.732583 |
| 6,822.00                             | 10.11           | 272.80      | 6,779.71              | 68.01        | -594.86      | 487,916.54          | 726,858.45         | 32.339924 | -103.732634 |
| 6,917.00                             | 8.66            | 276.23      | 6,873.44              | 69.19        | -610.30      | 487,917.72          | 726,843.01         | 32.339927 | -103.732684 |
| 7,011.00                             | 9.01            | 281.24      | 6,966.32              | 71.39        | -624.56      | 487,919.92          | 726,828.76         | 32.339934 | -103.732730 |
| 7,106.00                             | 9.14            | 281.24      | 7,060.13              | 74.31        | -639.25      | 487,922.84          | 726,814.06         | 32.339942 | -103.732777 |
| 7,201.00                             | 9.01            | 278.16      | 7,153.94              | 76.84        | -654.02      | 487,925.37          | 726,799.30         | 32.339949 | -103.732825 |
| 7,295.00                             | 7.87            | 274.30      | 7,246.93              | 78.37        | -667.72      | 487,926.90          | 726,785.60         | 32.339953 | -103.732870 |
| 7,390.00                             | 9.54            | 278.78      | 7,340.83              | 80.06        | -681.99      | 487,928.59          | 726,771.33         | 32.339958 | -103.732916 |
| 7,485.00                             | 9.76            | 279.31      | 7,434.48              | 82.56        | -697.71      | 487,931.09          | 726,755.60         | 32.339965 | -103.732967 |
| 7,579.00                             | 9.41            | 276.85      | 7,527.17              | 84.77        | -713.21      | 487,933.30          | 726,740.11         | 32.339972 | -103.733017 |
| 7,674.00                             | 9.54            | 276.23      | 7,620.88              | 86.55        | -728.74      | 487,935.08          | 726,724.57         | 32.339977 | -103.733067 |
| 7,769.00                             | 9.36            | 274.03      | 7,714.59              | 87.94        | -744.28      | 487,936.47          | 726,709.04         | 32.339981 | -103.733117 |
| 7,863.00                             | 8.31            | 276.93      | 7,807.47              | 89.30        | -758.64      | 487,937.83          | 726,694.67         | 32.339985 | -103.733164 |
| 7,958.00                             | 6.59            | 275.79      | 7,901.67              | 90.68        | -770.88      | 487,939.21          | 726,682.43         | 32.339989 | -103.733203 |
| 8,053.00                             | 5.14            | 281.68      | 7,996.17              | 92.09        | -780.48      | 487,940.62          | 726,672.84         | 32.339993 | -103.733234 |
| 8,148.00                             | 3.60            | 293.98      | 8,090.89              | 94.16        | -787.37      | 487,942.70          | 726,665.95         | 32.339999 | -103.733257 |
| 8,242.00                             | 1.76            | 301.72      | 8,184.78              | 96.12        | -791.29      | 487,944.65          | 726,662.02         | 32.340004 | -103.733269 |
| 8,337.00                             | 1.67            | 291.26      | 8,279.74              | 97.39        | -793.82      | 487,945.92          | 726,659.49         | 32.340008 | -103.733277 |
| 8,432.00                             | 1.41            | 272.19      | 8,374.71              | 97.94        | -796.28      | 487,946.47          | 726,657.03         | 32.340009 | -103.733285 |
| 8,527.00                             | 1.01            | 250.21      | 8,469.69              | 97.70        | -798.24      | 487,946.23          | 726,655.08         | 32.340009 | -103.733292 |
| 8,621.00                             | 1.32            | 238.79      | 8,563.67              | 96.86        | -799.94      | 487,945.39          | 726,653.37         | 32.340006 | -103.733297 |
| 8,684.00                             | 0.53            | 268.76      | 8,626.66              | 96.48        | -800.86      | 487,945.01          | 726,652.46         | 32.340005 | -103.733300 |
| 8,713.00                             | 0.31            | 278.52      | 8,655.66              | 96.48        | -801.07      | 487,945.02          | 726,652.25         | 32.340005 | -103.733301 |
| KOP @ 8713' MD, 260' FNL & 2086' FWL |                 |             |                       |              |              |                     |                    |           |             |
| 8,807.00                             | 5.54            | 181.48      | 8,749.51              | 91.98        | -801.44      | 487,940.51          | 726,651.88         | 32.339993 | -103.733302 |
| 8,902.00                             | 13.01           | 168.04      | 8,843.21              | 76.91        | -799.34      | 487,925.45          | 726,653.98         | 32.339952 | -103.733296 |
| 8,933.00                             | 16.48           | 169.09      | 8,873.19              | 69.18        | -797.78      | 487,917.71          | 726,655.54         | 32.339930 | -103.733291 |
| 8,964.00                             | 19.74           | 171.03      | 8,902.65              | 59.69        | -796.13      | 487,908.22          | 726,657.19         | 32.339904 | -103.733286 |
| 8,996.00                             | 22.90           | 172.61      | 8,932.45              | 48.17        | -794.49      | 487,896.71          | 726,658.83         | 32.339872 | -103.733281 |
| 9,050.00                             | 29.05           | 175.24      | 8,980.98              | 24.67        | -792.04      | 487,873.20          | 726,661.27         | 32.339808 | -103.733273 |
| 9,091.00                             | 32.57           | 176.56      | 9,016.19              | 3.72         | -790.56      | 487,852.26          | 726,662.76         | 32.339750 | -103.733269 |
| 9,122.00                             | 36.00           | 178.23      | 9,041.80              | -13.72       | -789.77      | 487,834.81          | 726,663.54         | 32.339702 | -103.733266 |
| 9,154.00                             | 39.16           | 178.50      | 9,067.15              | -33.22       | -789.22      | 487,815.31          | 726,664.10         | 32.339649 | -103.733265 |
| 9,186.00                             | 41.98           | 177.97      | 9,091.46              | -54.02       | -788.58      | 487,794.51          | 726,664.74         | 32.339591 | -103.733263 |
| 9,209.00                             | 45.01           | 178.94      | 9,108.14              | -69.84       | -788.15      | 487,778.69          | 726,665.16         | 32.339548 | -103.733262 |
| 9,250.00                             | 49.49           | 183.15      | 9,135.97              | -99.93       | -788.74      | 487,748.61          | 726,664.58         | 32.339465 | -103.733265 |
| 9,281.00                             | 52.75           | 186.49      | 9,155.43              | -123.96      | -790.78      | 487,724.57          | 726,662.53         | 32.339399 | -103.733272 |
| 9,313.00                             | 57.01           | 189.13      | 9,173.84              | -149.88      | -794.35      | 487,698.65          | 726,658.96         | 32.339328 | -103.733284 |
| 9,344.00                             | 61.32           | 189.75      | 9,189.72              | -176.13      | -798.72      | 487,672.40          | 726,654.59         | 32.339256 | -103.733298 |
| 9,375.00                             | 65.89           | 189.48      | 9,203.50              | -203.50      | -803.36      | 487,645.03          | 726,649.96         | 32.339181 | -103.733314 |
| 9,407.00                             | 71.43           | 188.16      | 9,215.14              | -232.95      | -807.92      | 487,615.59          | 726,645.40         | 32.339100 | -103.733329 |
| 9,438.00                             | 76.97           | 186.58      | 9,223.58              | -262.52      | -811.74      | 487,586.01          | 726,641.58         | 32.339019 | -103.733342 |
| 9,467.00                             | 82.29           | 185.09      | 9,228.80              | -290.88      | -814.64      | 487,557.65          | 726,638.68         | 32.338941 | -103.733352 |
| 9,498.00                             | 86.99           | 182.63      | 9,231.70              | -321.67      | -816.71      | 487,526.86          | 726,636.61         | 32.338856 | -103.733359 |
| 9,517.03                             | 89.29           | 180.85      | 9,232.31              | -340.68      | -817.29      | 487,507.85          | 726,636.03         | 32.338804 | -103.733361 |
| TR Fed 1-12 524H: FTP                |                 |             |                       |              |              |                     |                    |           |             |
| 9,530.00                             | 90.86           | 179.64      | 9,232.30              | -353.65      | -817.34      | 487,494.89          | 726,635.97         | 32.338768 | -103.733362 |
| 9,562.00                             | 92.35           | 179.11      | 9,231.40              | -385.63      | -816.99      | 487,462.90          | 726,636.32         | 32.338680 | -103.733361 |
| 9,593.00                             | 93.01           | 178.85      | 9,229.95              | -416.59      | -816.44      | 487,431.94          | 726,636.87         | 32.338595 | -103.733360 |
| 9,625.00                             | 93.45           | 178.94      | 9,228.15              | -448.53      | -815.83      | 487,400.00          | 726,637.49         | 32.338507 | -103.733359 |
| 9,720.00                             | 94.73           | 179.02      | 9,221.37              | -543.28      | -814.14      | 487,305.26          | 726,639.18         | 32.338247 | -103.733355 |
| 9,814.00                             | 93.41           | 176.83      | 9,214.70              | -636.97      | -810.74      | 487,211.56          | 726,642.57         | 32.337989 | -103.733346 |



Wellbenders  
Survey Report - Geographic



|           |                                  |                              |                                    |
|-----------|----------------------------------|------------------------------|------------------------------------|
| Company:  | Devon Energy                     | Local Co-ordinate Reference: | Well #524H                         |
| Project:  | Eddy Co., NM (Nad83 - East Zone) | TVD Reference:               | RKB=30' @ 3505.70usft (Cactus 108) |
| Site:     | Tomb Raider 1-12 Fed             | MD Reference:                | RKB=30' @ 3505.70usft (Cactus 108) |
| Well:     | #524H                            | North Reference:             | Grid                               |
| Wellbore: | OH                               | Survey Calculation Method:   | Minimum Curvature                  |
| Design:   | OH                               | Database:                    | WBDS_SQL_2                         |

| Survey                                             |                 |             |                       |              |              |                     |                    |           |             |
|----------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (usft)                              | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 9,909.00                                           | 93.36           | 176.83      | 9,209.09              | -731.66      | -805.50      | 487,116.87          | 726,647.82         | 32.337729 | -103.733330 |
| 10,004.00                                          | 94.20           | 177.35      | 9,202.83              | -826.33      | -800.69      | 487,022.20          | 726,652.63         | 32.337469 | -103.733316 |
| 10,099.00                                          | 94.68           | 177.35      | 9,195.47              | -920.94      | -796.31      | 486,927.59          | 726,657.01         | 32.337209 | -103.733304 |
| 10,194.00                                          | 93.63           | 176.12      | 9,188.59              | -1,015.53    | -790.91      | 486,833.00          | 726,662.41         | 32.336949 | -103.733288 |
| 10,288.00                                          | 93.89           | 176.04      | 9,182.42              | -1,109.11    | -784.50      | 486,739.42          | 726,668.82         | 32.336691 | -103.733269 |
| 10,383.00                                          | 92.35           | 176.83      | 9,177.25              | -1,203.78    | -778.60      | 486,644.75          | 726,674.72         | 32.336431 | -103.733252 |
| 10,477.00                                          | 92.57           | 176.74      | 9,173.22              | -1,297.55    | -773.33      | 486,550.98          | 726,679.98         | 32.336173 | -103.733236 |
| 10,570.00                                          | 91.69           | 177.97      | 9,169.76              | -1,390.38    | -769.05      | 486,458.15          | 726,684.27         | 32.335918 | -103.733224 |
| 10,663.00                                          | 90.42           | 179.29      | 9,168.05              | -1,483.34    | -766.82      | 486,365.19          | 726,686.49         | 32.335662 | -103.733219 |
| 10,755.00                                          | 89.49           | 179.02      | 9,168.12              | -1,575.33    | -765.47      | 486,273.20          | 726,687.85         | 32.335409 | -103.733216 |
| 10,847.00                                          | 89.27           | 178.85      | 9,169.12              | -1,667.31    | -763.76      | 486,181.23          | 726,689.56         | 32.335157 | -103.733212 |
| 10,939.00                                          | 91.16           | 179.99      | 9,168.77              | -1,759.29    | -762.82      | 486,089.24          | 726,690.49         | 32.334904 | -103.733211 |
| 11,032.00                                          | 92.00           | 179.90      | 9,166.21              | -1,852.26    | -762.74      | 485,996.27          | 726,690.58         | 32.334648 | -103.733212 |
| 11,124.00                                          | 91.52           | 180.69      | 9,163.38              | -1,944.21    | -763.21      | 485,904.32          | 726,690.11         | 32.334395 | -103.733215 |
| 11,216.00                                          | 92.48           | 180.69      | 9,160.17              | -2,036.15    | -764.32      | 485,812.38          | 726,689.00         | 32.334143 | -103.733221 |
| 11,309.00                                          | 90.42           | 180.69      | 9,157.82              | -2,129.11    | -765.44      | 485,719.42          | 726,687.88         | 32.333887 | -103.733226 |
| 11,402.00                                          | 89.49           | 180.69      | 9,157.89              | -2,222.10    | -766.56      | 485,626.43          | 726,686.76         | 32.333632 | -103.733231 |
| 11,495.00                                          | 88.92           | 180.17      | 9,159.18              | -2,315.09    | -767.25      | 485,533.44          | 726,686.06         | 32.333376 | -103.733235 |
| 11,588.00                                          | 90.68           | 179.29      | 9,159.51              | -2,408.08    | -766.82      | 485,440.45          | 726,686.50         | 32.333121 | -103.733235 |
| 11,680.00                                          | 92.79           | 178.85      | 9,156.72              | -2,500.02    | -765.32      | 485,348.51          | 726,687.99         | 32.332868 | -103.733232 |
| 11,772.00                                          | 92.18           | 179.20      | 9,152.73              | -2,591.92    | -763.76      | 485,256.61          | 726,689.56         | 32.332615 | -103.733229 |
| 11,865.00                                          | 91.25           | 180.17      | 9,149.95              | -2,684.88    | -763.25      | 485,163.65          | 726,690.07         | 32.332360 | -103.733229 |
| 11,959.00                                          | 89.54           | 180.69      | 9,149.30              | -2,778.87    | -763.95      | 485,069.66          | 726,689.36         | 32.332101 | -103.733233 |
| 12,054.00                                          | 90.20           | 181.66      | 9,149.52              | -2,873.85    | -765.90      | 484,974.69          | 726,687.41         | 32.331840 | -103.733241 |
| 12,149.00                                          | 91.25           | 182.10      | 9,148.32              | -2,968.79    | -769.02      | 484,879.75          | 726,684.30         | 32.331579 | -103.733253 |
| 12,243.00                                          | 91.96           | 181.75      | 9,145.68              | -3,062.69    | -772.17      | 484,785.84          | 726,681.14         | 32.331321 | -103.733265 |
| 12,338.00                                          | 90.46           | 180.34      | 9,143.68              | -3,157.65    | -773.91      | 484,690.88          | 726,679.41         | 32.331060 | -103.733272 |
| 12,432.00                                          | 90.51           | 180.17      | 9,142.88              | -3,251.65    | -774.32      | 484,596.88          | 726,678.99         | 32.330802 | -103.733275 |
| 12,527.00                                          | 89.80           | 179.11      | 9,142.62              | -3,346.64    | -773.73      | 484,501.89          | 726,679.59         | 32.330541 | -103.733275 |
| 12,622.00                                          | 90.02           | 178.06      | 9,142.77              | -3,441.61    | -771.38      | 484,406.92          | 726,681.93         | 32.330280 | -103.733269 |
| 12,716.00                                          | 89.27           | 180.08      | 9,143.36              | -3,535.59    | -769.86      | 484,312.94          | 726,683.46         | 32.330021 | -103.733266 |
| 12,811.00                                          | 89.19           | 181.31      | 9,144.63              | -3,630.58    | -771.01      | 484,217.95          | 726,682.31         | 32.329760 | -103.733271 |
| 12,905.00                                          | 89.80           | 182.45      | 9,145.46              | -3,724.52    | -774.09      | 484,124.01          | 726,679.22         | 32.329502 | -103.733283 |
| 12,999.00                                          | 90.33           | 182.45      | 9,145.35              | -3,818.43    | -778.11      | 484,030.10          | 726,675.21         | 32.329244 | -103.733298 |
| 13,093.00                                          | 89.36           | 181.22      | 9,145.61              | -3,912.38    | -781.12      | 483,936.15          | 726,672.20         | 32.328986 | -103.733309 |
| 13,188.00                                          | 88.48           | 179.11      | 9,147.40              | -4,007.36    | -781.39      | 483,841.17          | 726,671.92         | 32.328725 | -103.733312 |
| 13,283.00                                          | 90.02           | 178.14      | 9,148.64              | -4,102.32    | -779.11      | 483,746.21          | 726,674.20         | 32.328464 | -103.733306 |
| 13,377.00                                          | 92.22           | 178.76      | 9,146.81              | -4,196.26    | -776.57      | 483,652.27          | 726,676.74         | 32.328205 | -103.733299 |
| 13,472.00                                          | 95.60           | 179.64      | 9,140.33              | -4,291.02    | -775.25      | 483,557.52          | 726,678.07         | 32.327945 | -103.733297 |
| 13,486.24                                          | 95.26           | 179.61      | 9,138.98              | -4,305.19    | -775.16      | 483,543.34          | 726,678.16         | 32.327906 | -103.733297 |
| TR Fed 1-12 524H: MP Plan #4                       |                 |             |                       |              |              |                     |                    |           |             |
| 13,567.00                                          | 93.36           | 179.46      | 9,132.91              | -4,385.72    | -774.50      | 483,462.81          | 726,678.81         | 32.327685 | -103.733296 |
| 13,662.00                                          | 89.80           | 179.20      | 9,130.29              | -4,480.66    | -773.39      | 483,367.87          | 726,679.92         | 32.327424 | -103.733294 |
| 13,756.00                                          | 88.26           | 179.20      | 9,131.88              | -4,574.63    | -772.08      | 483,273.90          | 726,681.24         | 32.327165 | -103.733292 |
| 13,851.00                                          | 88.88           | 179.11      | 9,134.25              | -4,669.59    | -770.68      | 483,178.94          | 726,682.64         | 32.326904 | -103.733289 |
| 13,945.00                                          | 87.65           | 178.50      | 9,137.10              | -4,763.53    | -768.72      | 483,085.00          | 726,684.60         | 32.326646 | -103.733284 |
| 14,039.00                                          | 87.56           | 178.14      | 9,141.02              | -4,857.40    | -765.97      | 482,991.13          | 726,687.35         | 32.326388 | -103.733277 |
| 14,106.26                                          | 87.62           | 177.71      | 9,143.85              | -4,924.56    | -763.53      | 482,923.97          | 726,689.78         | 32.326203 | -103.733270 |
| Cross Section Line @ 14106' MD, 0' FNL & 2082' FWL |                 |             |                       |              |              |                     |                    |           |             |
| 14,134.00                                          | 87.65           | 177.53      | 9,144.99              | -4,952.25    | -762.38      | 482,896.28          | 726,690.93         | 32.326127 | -103.733267 |
| 14,228.00                                          | 87.43           | 177.00      | 9,149.03              | -5,046.06    | -757.90      | 482,802.47          | 726,695.42         | 32.325869 | -103.733254 |
| 14,323.00                                          | 91.82           | 179.02      | 9,149.65              | -5,140.97    | -754.60      | 482,707.56          | 726,698.71         | 32.325608 | -103.733246 |
| 14,417.00                                          | 90.33           | 179.20      | 9,147.89              | -5,234.94    | -753.14      | 482,613.59          | 726,700.17         | 32.325350 | -103.733242 |
| 14,512.00                                          | 90.86           | 178.94      | 9,146.90              | -5,329.92    | -751.60      | 482,518.61          | 726,701.71         | 32.325089 | -103.733239 |
| 14,606.00                                          | 91.12           | 178.76      | 9,145.28              | -5,423.89    | -749.72      | 482,424.64          | 726,703.60         | 32.324831 | -103.733235 |



Wellbenders  
Survey Report - Geographic



|           |                                  |                              |                                    |
|-----------|----------------------------------|------------------------------|------------------------------------|
| Company:  | Devon Energy                     | Local Co-ordinate Reference: | Well #524H                         |
| Project:  | Eddy Co., NM (Nad83 - East Zone) | TVD Reference:               | RKB=30' @ 3505.70usft (Cactus 108) |
| Site:     | Tomb Raider 1-12 Fed             | MD Reference:                | RKB=30' @ 3505.70usft (Cactus 108) |
| Well:     | #524H                            | North Reference:             | Grid                               |
| Wellbore: | OH                               | Survey Calculation Method:   | Minimum Curvature                  |
| Design:   | OH                               | Database:                    | WBDS_SQL_2                         |

| Survey                                            |                 |             |                       |              |              |                     |                    |           |             |
|---------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (usft)                             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 14,701.00                                         | 91.56           | 178.85      | 9,143.06              | -5,518.84    | -747.73      | 482,329.69          | 726,705.58         | 32.324570 | -103.733230 |
| 14,796.00                                         | 90.59           | 179.99      | 9,141.27              | -5,613.82    | -746.77      | 482,234.71          | 726,706.54         | 32.324309 | -103.733229 |
| 14,890.00                                         | 91.60           | 180.17      | 9,139.48              | -5,707.80    | -746.90      | 482,140.73          | 726,706.41         | 32.324050 | -103.733231 |
| 14,985.00                                         | 90.24           | 180.52      | 9,137.95              | -5,802.78    | -747.48      | 482,045.75          | 726,705.84         | 32.323789 | -103.733234 |
| 15,079.00                                         | 91.08           | 180.78      | 9,136.87              | -5,896.77    | -748.54      | 481,951.76          | 726,704.77         | 32.323531 | -103.733240 |
| 15,174.00                                         | 89.67           | 179.90      | 9,136.25              | -5,991.76    | -749.11      | 481,856.77          | 726,704.21         | 32.323270 | -103.733243 |
| 15,269.00                                         | 89.01           | 179.46      | 9,137.34              | -6,086.75    | -748.58      | 481,761.78          | 726,704.74         | 32.323009 | -103.733243 |
| 15,363.00                                         | 88.75           | 179.29      | 9,139.18              | -6,180.73    | -747.55      | 481,667.80          | 726,705.77         | 32.322750 | -103.733242 |
| 15,458.00                                         | 88.26           | 179.46      | 9,141.66              | -6,275.69    | -746.51      | 481,572.84          | 726,706.80         | 32.322489 | -103.733240 |
| 15,553.00                                         | 88.75           | 180.08      | 9,144.14              | -6,370.66    | -746.13      | 481,477.87          | 726,707.18         | 32.322228 | -103.733240 |
| 15,647.00                                         | 88.97           | 180.34      | 9,146.01              | -6,464.64    | -746.48      | 481,383.89          | 726,706.84         | 32.321970 | -103.733243 |
| 15,741.00                                         | 88.70           | 180.61      | 9,147.92              | -6,558.62    | -747.26      | 481,289.91          | 726,706.06         | 32.321712 | -103.733247 |
| 15,836.00                                         | 88.92           | 181.05      | 9,149.89              | -6,653.59    | -748.63      | 481,194.94          | 726,704.68         | 32.321451 | -103.733254 |
| 15,930.00                                         | 90.95           | 181.13      | 9,150.00              | -6,747.56    | -750.42      | 481,100.97          | 726,702.90         | 32.321192 | -103.733261 |
| 16,025.00                                         | 92.40           | 180.96      | 9,147.22              | -6,842.51    | -752.15      | 481,006.03          | 726,701.16         | 32.320931 | -103.733268 |
| 16,120.00                                         | 92.70           | 180.96      | 9,142.99              | -6,937.40    | -753.74      | 480,911.13          | 726,699.57         | 32.320671 | -103.733275 |
| 16,214.00                                         | 90.42           | 180.34      | 9,140.43              | -7,031.35    | -754.81      | 480,817.18          | 726,698.51         | 32.320412 | -103.733280 |
| 16,309.00                                         | 89.80           | 180.17      | 9,140.25              | -7,126.35    | -755.23      | 480,722.18          | 726,698.08         | 32.320151 | -103.733284 |
| 16,404.00                                         | 89.85           | 179.81      | 9,140.54              | -7,221.35    | -755.21      | 480,627.18          | 726,698.10         | 32.319890 | -103.733285 |
| 16,498.00                                         | 90.33           | 179.90      | 9,140.39              | -7,315.35    | -754.98      | 480,533.18          | 726,698.34         | 32.319632 | -103.733286 |
| 16,593.00                                         | 91.16           | 180.08      | 9,139.16              | -7,410.34    | -754.96      | 480,438.19          | 726,698.36         | 32.319371 | -103.733288 |
| 16,687.00                                         | 90.77           | 180.25      | 9,137.58              | -7,504.32    | -755.23      | 480,344.21          | 726,698.09         | 32.319112 | -103.733290 |
| 16,782.00                                         | 91.34           | 180.69      | 9,135.83              | -7,599.30    | -756.01      | 480,249.23          | 726,697.31         | 32.318851 | -103.733295 |
| 16,876.00                                         | 90.24           | 179.64      | 9,134.53              | -7,693.29    | -756.28      | 480,155.24          | 726,697.04         | 32.318593 | -103.733297 |
| 16,971.00                                         | 90.37           | 179.11      | 9,134.03              | -7,788.28    | -755.24      | 480,060.25          | 726,698.07         | 32.318332 | -103.733296 |
| 17,066.00                                         | 91.78           | 179.20      | 9,132.24              | -7,883.26    | -753.84      | 479,965.28          | 726,699.47         | 32.318071 | -103.733293 |
| 17,161.00                                         | 90.73           | 178.67      | 9,130.16              | -7,978.21    | -752.08      | 479,870.32          | 726,701.24         | 32.317810 | -103.733289 |
| 17,255.00                                         | 90.11           | 178.32      | 9,129.47              | -8,072.18    | -749.61      | 479,776.35          | 726,703.71         | 32.317551 | -103.733282 |
| 17,350.00                                         | 88.62           | 178.41      | 9,130.53              | -8,167.13    | -746.90      | 479,681.40          | 726,706.42         | 32.317290 | -103.733275 |
| 17,444.00                                         | 88.09           | 178.32      | 9,133.22              | -8,261.05    | -744.22      | 479,587.48          | 726,709.10         | 32.317032 | -103.733268 |
| 17,539.00                                         | 87.78           | 178.32      | 9,136.65              | -8,355.95    | -741.44      | 479,492.58          | 726,711.88         | 32.316771 | -103.733261 |
| 17,634.00                                         | 87.25           | 178.50      | 9,140.77              | -8,450.83    | -738.80      | 479,397.71          | 726,714.51         | 32.316510 | -103.733254 |
| 17,728.00                                         | 86.81           | 178.32      | 9,145.64              | -8,544.66    | -736.20      | 479,303.87          | 726,717.12         | 32.316252 | -103.733248 |
| 17,760.33                                         | 87.25           | 178.76      | 9,147.31              | -8,576.94    | -735.37      | 479,271.59          | 726,717.94         | 32.316164 | -103.733246 |
| 17,821.00                                         | 88.48           | 179.38      | 9,149.57              | -8,637.56    | -734.39      | 479,210.97          | 726,718.93         | 32.315997 | -103.733243 |
| 17,916.00                                         | 89.76           | 179.55      | 9,151.03              | -8,732.54    | -733.50      | 479,115.99          | 726,719.81         | 32.315736 | -103.733242 |
| 18,011.00                                         | 90.46           | 179.46      | 9,150.85              | -8,827.54    | -732.68      | 479,021.00          | 726,720.63         | 32.315475 | -103.733241 |
| 18,105.00                                         | 91.56           | 179.81      | 9,149.19              | -8,921.52    | -732.08      | 478,927.01          | 726,721.23         | 32.315216 | -103.733241 |
| 18,200.00                                         | 91.87           | 179.55      | 9,146.35              | -9,016.47    | -731.55      | 478,832.06          | 726,721.76         | 32.314955 | -103.733241 |
| 18,295.00                                         | 90.42           | 179.73      | 9,144.45              | -9,111.45    | -730.96      | 478,737.08          | 726,722.36         | 32.314694 | -103.733241 |
| 18,390.00                                         | 89.80           | 179.55      | 9,144.27              | -9,206.45    | -730.36      | 478,642.08          | 726,722.96         | 32.314433 | -103.733241 |
| 18,485.00                                         | 91.16           | 179.90      | 9,143.47              | -9,301.44    | -729.90      | 478,547.09          | 726,723.41         | 32.314172 | -103.733241 |
| 18,580.00                                         | 91.34           | 179.64      | 9,141.40              | -9,396.42    | -729.52      | 478,452.11          | 726,723.79         | 32.313911 | -103.733241 |
| 18,674.00                                         | 91.65           | 179.55      | 9,138.95              | -9,490.38    | -728.86      | 478,358.15          | 726,724.46         | 32.313653 | -103.733241 |
| 18,768.00                                         | 93.19           | 179.99      | 9,134.98              | -9,584.30    | -728.48      | 478,264.24          | 726,724.83         | 32.313395 | -103.733241 |
| 18,863.00                                         | 91.60           | 179.46      | 9,131.01              | -9,679.21    | -728.03      | 478,169.32          | 726,725.29         | 32.313134 | -103.733242 |
| 18,958.00                                         | 90.46           | 179.02      | 9,129.30              | -9,774.18    | -726.77      | 478,074.35          | 726,726.55         | 32.312873 | -103.733239 |
| 19,052.00                                         | 90.64           | 179.02      | 9,128.40              | -9,868.16    | -725.16      | 477,980.37          | 726,728.16         | 32.312614 | -103.733236 |
| 19,146.00                                         | 89.36           | 178.76      | 9,128.40              | -9,962.14    | -723.34      | 477,886.39          | 726,729.98         | 32.312356 | -103.733232 |
| 19,241.00                                         | 89.54           | 178.67      | 9,129.31              | -10,057.12   | -721.21      | 477,791.41          | 726,732.11         | 32.312095 | -103.733227 |
| 19,272.85                                         | 89.76           | 178.94      | 9,129.51              | -10,088.96   | -720.54      | 477,759.57          | 726,732.77         | 32.312007 | -103.733225 |
| 19,285.00                                         | 90.10           | 179.01      | 9,129.52              | -10,101.11   | -720.33      | 477,747.42          | 726,732.99         | 32.311974 | -103.733224 |
| Cross Perf Line @ 19285' MD, 100' FSL & 2102' FWL |                 |             |                       |              |              |                     |                    |           |             |
| 19,318.00                                         | 91.03           | 179.20      | 9,129.19              | -10,134.10   | -719.81      | 477,714.43          | 726,733.51         | 32.311883 | -103.733223 |



Wellbenders  
Survey Report - Geographic



|           |                                  |                              |                                    |
|-----------|----------------------------------|------------------------------|------------------------------------|
| Company:  | Devon Energy                     | Local Co-ordinate Reference: | Well #524H                         |
| Project:  | Eddy Co., NM (Nad83 - East Zone) | TVD Reference:               | RKB=30' @ 3505.70usft (Cactus 108) |
| Site:     | Tomb Raider 1-12 Fed             | MD Reference:                | RKB=30' @ 3505.70usft (Cactus 108) |
| Well:     | #524H                            | North Reference:             | Grid                               |
| Wellbore: | OH                               | Survey Calculation Method:   | Minimum Curvature                  |
| Design:   | OH                               | Database:                    | WBDS_SQL_2                         |

| Survey                                                            |                 |             |                       |              |              |                     |                    |           |             |
|-------------------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (usft)                                             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 19,364.56                                                         | 91.03           | 179.20      | 9,128.36              | -10,180.65   | -719.16      | 477,667.88          | 726,734.16         | 32.311755 | -103.733222 |
| TR Fed 1-12 524H: PBHL (20' FSL & 2100' FWL)                      |                 |             |                       |              |              |                     |                    |           |             |
| 19,387.00                                                         | 91.03           | 179.20      | 9,127.95              | -10,203.08   | -718.85      | 477,645.45          | 726,734.47         | 32.311694 | -103.733222 |
| BHL @ 19387' MD, 2' FSL & 2103' FWL - Final Bit Proj. @ 19387' MD |                 |             |                       |              |              |                     |                    |           |             |

| Design Targets                       |               |              |            |              |              |                 |                |           |             |
|--------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name                          | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |
| hit/miss target                      |               |              |            |              |              |                 |                |           |             |
| Shape                                |               |              |            |              |              |                 |                |           |             |
| Final Bit Proj. @ 19387'             | 0.00          | 0.00         | 9,127.95   | -10,203.08   | -718.85      | 477,645.45      | 726,734.47     | 32.311694 | -103.733222 |
| - actual wellpath hits target center |               |              |            |              |              |                 |                |           |             |
| - Point                              |               |              |            |              |              |                 |                |           |             |

| Design Annotations    |                       |                   |              |                                                    |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                                            |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                                    |
| 8,713.00              | 8,655.66              | 96.48             | -801.07      | KOP @ 8713' MD, 260' FNL & 2086' FWL               |
| 14,106.26             | 9,143.85              | -4,924.56         | -763.53      | Cross Section Line @ 14106' MD, 0' FNL & 2082' FWL |
| 19,285.00             | 9,129.52              | -10,101.11        | -720.33      | Cross Perf Line @ 19285' MD, 100' FSL & 2102' FWL  |
| 19,387.00             | 9,127.95              | -10,203.08        | -718.85      | BHL @ 19387' MD, 2' FSL & 2103' FWL                |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|